Order of Operations p20 text

$-4(6-2)+(3-1)^2$

B Brackets
E exp
D ÷] left to right
M ×]
A +
S −]

$= -4(4)+(2)^2$

$= -4(4)+(4)$

$= -16+4$

$= -12$

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$= 6^2-(3-1)^3+4$

$= 6^2-(2)^3+4$

$= 36-8+4$

$= 28+4$

$= 32$

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$(-3)^2$ Vs $-(3)^2$

-3×-3 $-(3\times3)$

$+9$ $-(+9)$

-9

$(-4)^3$

$(-4)(-4)(-4)$

-64

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Exponent Rules Review

i) $3^2\cdot3^4 \Rightarrow 3^{2+4}$

3^6

ii) $\frac{2^3\,2^4}{2^6}$ $= \frac{2^{3+4}}{2^6}$

$= \frac{2^7}{2^6}$

$= 2^{7-6} = 2^1$

iii) $(3^4)^2$

$3^{4\times2}$

3^8

iv) $\frac{a^2b^4}{a^1b^1}$

a^1b^3

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One Step Solving - Algebra

$\frac{3r}{3} = \frac{9}{3}$

$r = 3$

$\frac{r}{4} = 6$

$4\left(\frac{r}{4}\right) = (6)4$

$r = 24$

$r+3 = 12$

$r+3-3 = 12-3$

$r = 9$

$t-6 = 18$

$t = 18+6$

$t = 24$

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Two Step Solving

Steps a) solve by + and −
b) solve by × and ÷

$3t-6 = 14$

$3t = 14+6$

$\frac{3t}{3} = \frac{20}{3}$

$t = 20/3$

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$\frac{n}{4} + 2 = 16$

$\frac{n}{4} = 16 - 2$

$4\left(\frac{n}{4}\right) = (14)4$

$n = 56$

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$6r - 6 = 24$

$6r = 24 + 6$

$\frac{6r}{6} = \frac{30}{6}$

$r = 5$

$\frac{2n}{3} + 4 = 16$

$\frac{2}{3}n = 16 - 4$

$3 \times \frac{2}{3}n = 12 \times 3$

$2n = 36$

$\frac{2n}{2} = \frac{36}{2}$

$n = 18$

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Text p 20

q 2abc
4
5
10

sum – add
difference – sub
product – x
quotient – div

p25 q.2, 3, 5

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